

## REPORT ON WATER TUBE BOILERS.

No. 56262

Received at London Office

Date of writing Report 10 Nov 1948 When handed in at Local Office 10 Nov 1948 Port of CARDIFF  
 No. in Survey held at CARDIFF Date, First Survey 26 2 48 Last Survey 3 11 1948  
 Reg. Book. 13715 on the S.S. "ST JESSICA" (Number of Visits 4) Gross 3420 Tons Net 3322  
 Built at HOG ISLAND PA. By whom built AMERICAN INTERNATIONAL S.B. CO. Yard No. 1491 When built 1920.  
 Engines made at SCHENECTADY N.Y. By whom made GENERAL ELECTRIC CO. Engine No. 13350 When made 1920.  
 Boilers made at BAYONNE N.J. By whom made BABCOCK & WILCOX CO. Boiler No. 902 When made 1920.  
 Nominal Horse Power 525 Owners ST. QUENTIN SHIPPING CO. LTD. Port belonging to NEWPORT

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel MIDVALE, CENTRAL, LOST CO. &amp; LUKENS ST. CO.

Date of Approval of plan AMERICAN BUREAU No. and Description or Type

of Boilers 3 BABCOCK &amp; WILCOX WATERTUBE Working Pressure 200 LBS Tested by Hydraulic Pressure to 220 LBS Date of Test

No. of Certificate Can each boiler be worked separately YES Total Heating Surface of Boilers 8706 SQ FEET

Is forced draught fitted NO Area of Fire Grate (coal) in each Boiler OIL FIRED

No. and type of burners (oil) in each boiler 3 COEN OR PRESSURE BURNERS No. and description of safety valves on

each boiler 2 3 SPRING LOADED HIGH LIFT. Area of each set of valves per boiler per rule 8.03 sq in

are adjusted 200 LBS Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter

the donkey boiler NONE FITTED Smallest distance between boilers or uptakes and burners or woodwork 2'-11 1/2" Height of boiler 12'-10"

Width and length 14'-6 1/2" &amp; 11'-7 1/2" Steam Drums: Number in each boiler ONE Inside diameter 42"

Thickness of plates 5/8" Range of tensile strength Are drum shell plates welded

or flanged NO If fusion welded, state name of welding firm Have all the requirements of the Rules

for Class I vessels been complied with A.B. Description of riveting: Circ. seams S.B. L.A.P. long. seams D.R.O.B.S.

Diameter of rivet holes in long. seams 23/32" Pitch of rivets 2 3/32" &amp; 4 3/16" Thickness of straps 5/8" Percentage strength of

long. joint: Plate 80% Rivet Diameter of tube holes in drum 4" Pitch of tube holes 4"

Percentage strength of shell in way of tubes Steam Drum Heads or Ends: Range of tensile strength

Thickness of plates 5/8" Radius or how stayed DISHED ENDS Size of manhole or handhole 11" x 15" Water Drums: Number

in each boiler Inside diameter Thickness of plates Range of tensile strength Are drum shell plates

welded or flanged If fusion welded, state name of welding firm Have all the requirements of the Rules

for Class I vessels been complied with Description of riveting: Circ. seams long. seams

Diameter of rivet holes in long. seams Pitch of rivets Thickness of straps

Percentage strength of long. joint: Plate Rivet Diameter of tube holes in drum Pitch of tube holes

Percentage strength of drum shell in way of tubes Water Drum Heads or Ends: Range of tensile strength

Thickness of plates Radius or how stayed Size of manhole or handhole

Heads or Sections: Number 24 Material STEEL Thickness 5/8" Tested by hydraulic pressure to 220 LBS

Tubes: Diameter 4 1/2" Thickness 3 B.W.C. Number 264 Steam Dome or Collector: Description of

joint to shell Inside diameter Thickness of shell plates Range of tensile

strength Description of longitudinal joint If fusion welded, state name of welding

Have all the requirements for the Rules for Class I vessels been complied with Diameter of rivet holes

Pitch of rivets Thickness of straps Percentage strength of long. joint plate rivet

Range of tensile strength Thickness Radius or how stayed

SUPERHEATER Drums or Headers: Number in each boiler SUPERHEATERS OUT OF USE. Inside diameter STEAM PIPES REMOVED &amp; HEADERS BLANKED OFF.

Thickness Material Range of tensile strength Are drum shell plates welded

flanged If fusion welded, state name of welding firm Have all the requirements of the Rules

for Class I vessels been complied with Description of riveting: Circ. seams long. seams

Diameter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of

long. joint: Plate Rivet Diameter of tube holes in drum Pitch of tube holes Percentage strength of

drum shell in way of tubes Drum Heads or Ends: Thickness Range of tensile strength

Radius or how stayed Size of manhole or handhole Number, diameter, and thickness of tubes

Tested by hydraulic pressure to Date of test Is a safety valve fitted to each section of the superheater which

can be shut off from the boiler No. and description of safety valves Area of each set

valves Pressure to which they are adjusted Is easing gear fitted

Easing Gear. Has the spare gear required by the Rules been supplied YES

The foregoing is a correct description,

Manufacturer.

Is the approved plan of boiler forwarded herewith

Total No. of visits

this boiler a duplicate of a previous case. YES If so, state vessel's name and report No. "QUIST CORCK" REG. NO. 3043

GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c. THESE BOILERS HAVE BEEN BUILT UNDER THE SURVEY AND

CLASS OF AMERICAN BUREAU. THE SCANTLING HAS BEEN VERIFIED AS FAR AS PRACTICABLE AND SO FAR AS CAN BE

BEEN THE MATERIAL AND WORKMANSHIP ARE GOOD. THE BOILERS ARE ELIGIBLE IN MY OPINION TO BE CLASSED WITH

RECORD OF B/S. 11/48

Survey Fee (SEE REPT 9) £ : : When applied for 19

Travelling Expenses (if any) £ : : When received 19

Date

Committee's Minute

See minute on front

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

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